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5.1 INTRODUCTION

The success of the Snake River Birds of Prey National Conservation Area (NCA) resource management plan (RMP) will be measured by the degree to which it is implemented and the degree to which the Desired Future Conditions (DFC) are met. This chapter provides a framework to implement and monitor the various components of the preferred alternative described in Chapter 3 through an adaptive management process.

5.2 ADAPTIVE MANAGEMENT

The complexity and interconnectedness of natural processes and resource uses makes it impossible to completely understand all the components that make up the NCA and how they interact. Not only is our knowledge incomplete, but the systems themselves are constantly changing through both natural and human caused mechanisms. A dynamic planning process allows managers to apply new knowledge and understanding of processes to address these unknowns. Adaptive management is a continual process of planning, implementation, monitoring, and evaluation/assessment to adjust management strategies (Figure 5.1). Using the best available data, scientific information, and professional judgment, adaptive

management allows managers to meet DFC and objectives by adjusting management throughout the life of the plan. Adaptive management improves the effectiveness of the plan by permitting dynamic responses to new data, changes in public expectations/desires, and a changing landscape.

5.3 IMPLEMENTATION

Implementation is the process of putting plans and decisions into effect. Following the adoption of the RMP, many of the actions identified will require implementation plans such as the designation of routes within areas identified as limited to designated routes, or a management plan for a Special Recreation Management Area (SRMA). These plans will provide the site specific management emphasis necessary to fully achieve the RMP objectives for that area.

In implementing this plan, BLM would focus its resources on the highest priority issues determined to have the greatest significance in meeting the needs of raptor and raptor prey populations. Other issues would be deferred until priority programs and projects are implemented. In setting priorities the following factors would be evaluated:

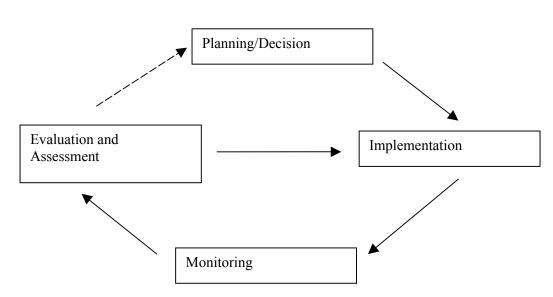


Figure 5.1 The Adaptive Management Process.

- Is this a primary purpose for the NCA?
- What geographic area would show the greatest return for the time and money invested?
- Will the project benefit special resource values, such as SSP or cultural resources?
- Does monitoring show we are making progress toward achieving the DFC?

Implementation decisions represent the final approval of the ground actions needed to implement the decisions identified in the RMP. These types of decisions generally require site-specific planning and NEPA analysis. The following are examples of implementation:

- Fire Management Site specific fire and fuels management practices that are needed to meet the RMP decision to increase the number of acres receiving fuels treatments.
- Lands and Realty Ensuring that authorized realty actions occurring in avoidance areas are consistent with the protection of the identified sensitive resource(s).
- Livestock Grazing Identifying allotmentspecific grazing management practices for lands designated as open for livestock grazing.
- Recreation Developing SRMA management plans
- Transportation Designating the travel management network for all areas identified as limited to designated routes in the RMP.

The rate of implementation and overall management would be guided by budget allocations and would be developed in consultation with other agencies, Tribes, government entities, and collaborators. Specific priorities would be further refined during development and NEPA analyses of implementation and project plans. Priorities would be reviewed annually to help develop the work plan commitments for the coming years and would be driven in part, by our success in making progress toward achieving the DFC.

5.4 MONITORING

RMP monitoring differs from activity or program specific monitoring in that it looks at progress on a landscape basis and focuses on trends in achieving objectives that will move closer to the DFC. Monitoring would focus on the how the plan is implemented (implementation monitoring) and the effectiveness of the actions implemented (effectiveness monitoring). Although some program specific monitoring currently occurs (i.e., livestock utilization, traffic counters), a comprehensive monitoring plan will be developed to insure adequate progress toward the goals and objectives for the selected alternative.

Implementation monitoring would record what, when, where, and how the plan has been followed, including legal requirements and agency policies. Implementation monitoring would occur at one-year intervals and would provide a basis for annual budgeting.

Effectiveness monitoring would focus primarily on vegetation resources (for DFC) and secondarily on other resources (for objectives). Most resources and resource uses depend on the type and ecological condition of existing vegetation communities. The DFC generally call for maintaining or increasing the amount of perennial grass and shrub cover. Effectiveness monitoring would focus on short- and long-term landscape-wide changes to perennial vegetation cover (Table 5.1). Key indicators would include the amount of:

- shrub or perennial grass dominated communities that are converted to annual dominated communities by fire or failed vegetation treatments (desirable vegetation lost);
- perennial grass/shrub or to a lesser degree, perennial grass communities (desirable vegetation) present; and
- connectivity between desirable vegetation communities (degree of fragmentation).



Table 5.1. Landscape-level Measures of the Effectiveness of Implementing the NCA RMP. Changes in these Indicators Would Help Determine Progress Toward Meeting DFC

	Management Area		•		s Toward Meeting DFC.
Indicator	(BLM acres)	Current	10-year	20-year	Trigger(s)
Desirable Vegeta-	Entire NCA		<15,000	<30,000	Loss of >7,500 acres in
tion Lost			acres	acres	a 5-year period
Desirable Vegeta-	Entire NCA	39	46	58	Failure of >20% of
tion Present ¹	$(476,600)^2$				treatments over a 5-
	NCA outside	42	52	66	year period.
	the OTA				
	(341,600)				
	1	66	75	90	
	(96,700)				
	2	35	45	60	
	(190,800)				
	3	30	35	45	
	(54,100)				
	OTA	32	32	39	Loss of 10% in 10
	(134,900)				years
Degree of fragmen-	1	Moderate	Moderate	Low	Increase in the ex-
tation	2	Moderate	Moderate	Moderate	pected level of frag-
		to High		to Low	mentation.
	3	High	High	Moderate	
	OTA	Low to	Low to	Low to	
		High	High	High	

Expressed as a percentage of the area.

Although 230,000 acres of vegetation treatments would occur in the preferred alternative, the 10- and 20-year projected values for desirable vegetation present account for funding problems or unforeseen catastrophic events (i.e., fire, drought).

Monitoring intervals would vary because of different responses to treatments or disturbances. Fire would result in the immediate conversion of shrublands to grasslands; therefore, changes can be monitored on a yearly basis. However, because fire conditions vary considerably between years, the trigger for change would occur at a longer interval. Establishing perennial grass and shrub communities through vegetation treatments would occur at a slower rate; therefore, changes from fuels and restoration treatments could be expected

to be measurable at five-year intervals. Increasing the size and connectivity of perennial communities would occur over the long-term. and measurable changes could be expected at 10- or 20-year intervals.

The triggers are meant as guidelines and could change as inventory, research, and experience indicate.

Objectives to be monitored are organized by resource or resource use (Table 5.2). Monitoring is intended to identify broad trends that indicate improvements or changes that need to be addressed and is not intended to be site specific or address all objectives, activities, and resources. The objectives listed generally follow those identified in Chapter 3; however, some have been paraphrased or combined

5.4 Monitoring



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Total of the following general vegetation classifications: shrub/cheatgrass, cheatgrass, exotic annuals, Sandberg bluegrass/cheatgrass, shrubs, seeded, and bare ground.

where appropriate. They are listed under the resource most directly affected by the action.

Monitoring of key elements of the plan does not constitute a BLM decision, but merely provides the basis for adaptive management.

Monitoring would be implemented over a period of years, and would be conducted in a cost-effective manner, often using data currently collected for other purposes, such as rangeland trend data. Monitoring may also

include sampling, modeling, or remote sensing to analyze landscape-wide progress. Monitoring methods would follow BLM or other appropriate protocols.

The monitoring program would not be static, but would be periodically evaluated and adjusted as appropriate to ensure that the monitoring questions and standards remain relevant. As part of regular plan maintenance, some monitoring items could be discontinued and others added as knowledge and issues change.

Table 5.2. Landscape-level Measures of the Effectiveness of Implementing the Snake River Birds of Prey National Conservation Area RMP. Changes in these Indicators Would Help Determine if Objectives are Being Met.

Help Determine if Objectives are Being Met.				
Cultural	Objective	Manage cultural resources by emphasiz- Indicator/Trigger for		
		ing mitigation and public interpretation.	Adaptive Management	
	Monitoring	Monitor a representative sample of sig-	Impacts to cultural re-	
	Method and	nificant cultural sites at least once every	sources that detract from	
	Frequency	three years (1-3 year). Create a mitiga-	the characteristics that	
		tion plan based on the results of the	make a site eligible for	
		monitoring.	the National Register.	
		Monitor the Guffey Butte – Black Butte		
		Archaeological District and the Oregon		
		Trail for recreation, OHV, fire suppres-		
		sion, and rehabilitation/restoration im-		
		pacts (annually).		
Fish and	Objective	Emphasize protection and enhancement	Indicator/Trigger for	
Wildlife		of raptor prey and other wildlife popula-	Adaptive Management	
		tions and habitats and expand areas	•	
		useable by raptor prey and big game.		
	Monitoring	Monitor prey populations to determine	Consistent downward	
	Method and	whether treated and untreated vegetation	trends or persistent in-	
	Frequency	communities are meeting the needs of	stability in populations.	
	1	raptor prey species, especially Piute		
		ground squirrel and black-tailed jackrab-		
		bits (1-3 years).		
		Use monitoring data provided by IDF&G		
		(1-5 year intervals) for waterfowl, upland		
		game, and big game species to identify		
		population trends.		
		Monitor the colonization of successfully		
		rehabilitated and restored uplands by		
		representative wildlife species beginning		
		15 years after treatment.		

Table 5.2. Landscape-level Measures of the Effectiveness of Implementing the Snake River Birds of Prey National Conservation Area RMP. Changes in these Indicators Would Help Determine if Objectives are Being Met.

Help Determine if Objectives are Being Met.				
Special	Objective	Emphasize maintenance, protection, and	Indicator/Trigger for	
Status		enhancement of raptors and other sensi-	Adaptive Management	
Animals		tive wildlife populations and habitats.		
	Monitoring	Monitor representative select sensitive	Consistent downward	
	Method and	species (avian, mammalian, aquatic) in	trends or persistent in-	
	Frequency	representative habitats (1-3 year inter-	stability in populations.	
		vals).		
		,		
		Monitor the colonization of successfully		
		rehabilitated and restored ripar-		
		ian/wetlands by representative special		
		status species beginning 15 years after		
		treatment 1-3 year intervals).		
Special	Objectives	The distribution, abundance, and vigor	Indicator/Trigger for	
Status	3	of special status plants would be main-	Adaptive Management	
Plants		tained or improved.	•	
	Monitoring	Monitor select populations of Type 1 and	For slickspot pepper-	
	Method and	2 special status plants for disturbance	grass, 10% surface dis-	
	Frequency	from livestock trampling and grazing,	turbance on 10% of	
		OHV activity, fire (suppression and ESR	slickspots on a transect	
		activities), and exotic plant invasion (1-	would trigger a man-	
		5-year intervals). Slickspot peppergrass	agement change. Other	
		occurrences would be monitored annu-	species do not have spe-	
		ally using the habitat integrity protocol	cific triggers.	
		(as described in the CCA).		
Vegetation	Objectives	Watersheds would have stable vegetative	Indicator/Trigger for	
		communities that provide for proper hy-	Adaptive Management	
		drologic function, nutrient cycling, en-		
		ergy flow, and soil stability.		
		Limit further loss of existing native shrub		
		habitat to no more than 30,000 acres		
		and increase the acres of restored shrub		
		habitat.		

5-5 5.4 Monitoring

Table 5.2. Landscape-level Measures of the Effectiveness of Implementing the Snake River Birds of Prey National Conservation Area RMP. Changes in these Indicators Would Help Determine if Objectives are Being Met.

Theip Determine it Objectives are Being Met.				
Monitoring	Use satellite imagery to monitor land-	Greater than expected		
Method and	scape changes in desired plant communi-	loss of perennial vegeta-		
Frequency	ties related to fire, recreation, livestock	tion communities.		
	grazing, military training, and other ac-			
	tivities to assess potential impacts to rap-			
	tor prey species (5-year intervals)			
	Monitor livestock utilization following			
	use periods.			
	1			
	Vegetation trend monitoring in the OTA			
	Monitor condition, viability, and effec-			
	tiveness of fuel breaks (annually).			
Recreation Objective	Provide a diversity of quality, resource	Limits of Acceptable		
	based recreational opportunities, while	Change (LAC) thresh-		
	protecting resource values, minimizing	olds are exceeded.		
	user conflicts, and promoting public			
	safety.			
Monitoring	Obtain visitor use estimates from other			
Method and	State agencies (e.g. IDF&G, IDP&R)			
Frequency	and private entities (e.g. Idaho Power			
	Company) (annually).			
	company) (amamay).			
	Evaluate other monitoring data (vegeta-			
	tion, wildlife) to determine if resource			

5.5 EVALUATION AND ASSESSMENT – FUTURE CHANGES TO THE RMP

Evaluation and assessment is the point where plans and monitoring data are reviewed. This phase of adaptive management is used to: 1) judge the success of existing actions in meeting objectives and making progress toward achieving DFC; 2) make recommendations for mid-course corrections; and 3) help set priorities for management and research. The understanding gained through a comprehensive review of all the monitoring data is critical to managing sustainable, healthy, and productive habitats.

Evaluation and assessment would occur at five-year intervals. Tables 5.1 and 5.2 identify

indicators or triggers (conditions that reflect a movement away from DFC) that may indicate a need to change or adjust management. Results from program specific monitoring could provide additional indicators for change. Conditions that might warrant a change in the RMP include:

- New information or circumstances that provide for interpretations not known or understood when the RMP was completed that could significantly affect ongoing actions.
- RMP decisions that are no longer valid based on new information or changed circumstances.



- Implementation decisions that are no longer valid based on new information or changed circumstances.
- Effects of proposed or ongoing actions that are substantially different than those projected in the Environmental Impact Statement (EIS).
- Inconsistencies that arise between RMP actions and other resource-related plans.

Minor changes, refinements, or clarifications in the plan are maintenance actions that incorporate data from monitoring. Plan maintenance actions would not expand the scope of resource uses or restrictions or change the terms, conditions, or decisions of the approved NCA RMP/EIS. Maintenance actions do not require formal public involvement, Tribal con-

sultation, or interagency coordination. Major changes to the plan, however, would require a plan amendment, formal public involvement, interagency coordination, and Tribal consultation, and NEPA analysis.

5.6 COLLABORATION IN IMPLEMENTATION AND MONITORING

Although BLM has primary responsibility for management of the NCA, opportunities exist to work with a variety of cooperating entities (i.e. Idaho Army National Guard (IDARNG), U.S. Geological Survey's Biological Resource Division) during plan implementation and monitoring. For example, The IDARNG monitors vegetation plots annually to determine habitat trend. And provide information regarding the status of vegetation in the OTA.



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